



## From the INTERNATIONAL SEARCHING AUTHORITY

67 OCT 2004

JOHN W. CALDWELL				
WOODCOCK WASHBURN LLP	NOTITION (	OF TRANSMITTAL OF		
ONE LIBERTY PLACE - 46TH FLOOR PHILADELPHIA, PA 19103	THE INTERNATION	NAL SEARCH REPORT		
	OR THE I	DECLARATION		
	(PCT Rule 44.1)			
·	Date of Mailing	A000		
	(day/month/year)	10 SEP 2004		
Applicant's or agent's file reference ISIS-5192	FOR FURTHER ACTION S	ee paragraphs 1 and 4 below		
International application No.	International filing date			
PCT/US03/10840 .	(day/month/year) 09 April 2	2003 (09.04.2003)		
Applicant				
ISIS PHARMACEUTICALS, INC.				
The applicant is hereby notified that the international sea	arch report has been established and	is transmitted herewith.		
Filing of amendments and statement under Article 19	:	·		
The applicant is entitled, if he so wishes, to amend the c				
When? The time limit for filing such amendments international search report.	is normally two months from the d	ate of transmittal of the		
Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35				
For more detailed instructions, see the notes on the	accompanying sheet.			
The applicant is hereby notified that no international sea	rch report will be established and t	hat the declaration under		
Article 17(2)(a) to that effect is transmitted herewith.	•			
3. With regard to the protest against payment of (an) add		•		
the protest together with the decision thereon has b	een transmitted to the International protest and the decision thereon to	Bureau together with the the designated Offices.		
applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.  no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
·	•			
4. Reminders Shortly after 18 months from the priority date, the internation applicant wishes to avoid or postpone publication, a notice of must reach the International Bureau as provided in Rules 90 bit preparations for international publication.	withdrawal of the international ages, 1 and 90 bis.3, respectively, bet	fore the completion of the technical		
Within 19 months from the priority date, but only in respect examination must be filed if the applicant wishes to postpone date (in some Offices even later); otherwise the applicant must acts for entry into the national phase before those designated Of	the entry into the national phase st, within 20 months from the pr	until 30 months from the priority		
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.				
See the Annex to Form PCT/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet sit	ne applicable time limits, Office b			
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US	Afthorized offices Tracy Vivlemore	- Youkend for		
Commissioner for Patents P.O. Box 1450				
Alexandria, Virginia 22313-1450	Telephone No. 571-2	72-1600		

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (April 2002)

(See notes on accompanying sheet)



# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applican	nt's or agent's file reference	FOR FURTHER ACTION	Report (F	form PCT/ISA/220) as well as, where applicable,		
1			item 5 bei	ow. (Earliest) Priority Date (day/month/year)		
	onal application No. 03/10840	International filing date (day/month/year) 09 April 2003 (09.04.2003)  (Earliest) Priority Date (day/month/year) 09 April 2002 (09.04.2002)		09 April 2002 (09.04.2002)		
Applicar ISIS PH	nt ARMACEUTICALS, INC.					
This inte	ernational search report has been	n prepared by this International Seg transmitted to the International l	arching A Bureau.	uthority and is transmitted to the applicant		
I.	ernational search report consists	of a total of 3 sheets.				
	It is also accompanied	by a copy of each prior art docu	ment cited	in this report.		
1. Bas	language in which it was filed,	, unless otherwise indicated under t	his item.	basis of the international application in the		
ь.	Ath-a-minu (Dullo 22 1(b))	and/or amino acid sequence disc		e international application furnished to this		
Г		al application in written form.				
l F			dable forn	<b>a.</b>		
-	filed together with the international application in computer readable form.  furnished subsequently to this Authority in written form.					
	furnished subsequently to this Authority in computer readable form.					
		quently furnished written sequence		s not go beyond the disclosure in the		
	the statement that the information been furnished.	nation recorded in computer readab	le form is	identical to the written sequence listing has		
2. T	Certain claims were found	l unsearchable (See Box I).		•		
3.	Unity of invention is lacki	ng (See Box II).				
	Vith regard to the title,			·		
[2	the text is approved as subm					
	the text has been established	d by this Authority to read as follow	vs:			
5. <u>W</u>	Vith regard to the abstract,			•		
	the text is approved as subr	nitted by the applicant.				
	the text has been established within one month from the	d, according to Rule 38.2(b), by the date of mailing of this international	is Authorit search rep	y as it appears in Box III. The applicant may, port, submit comments to this Authority.		
6. Т	The figure of the drawings to be pu	ablished with the abstract is Figure	No	None of the figures		
1 }	because the applicant failed					
	because this figure better c			•		
1 6	pecause uns rigure better d	iminosoi inco mo mitorino				

Form PCT/ISA/210 (first sheet) (July 1998)



### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/10840

A. CLAS	SIFICATION OF SUBJECT MATTER					
IPC(7)	: A61K 48/00; C07H 21/04	•	*			
US CL	: 514/44; 536/23.1 International Patent Classification (IPC) or to both nat	ional classif	fication and IPC			
	OS SEARCHED	TOTAL CLASSIC				
		eleccificat	ion symbols)			
Minimum doc U.S.: 51	numentation searched (classification system followed by 4/44;536/23.1	y ciassificat	ion symbolsy			
Documentatio	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic dat Please See Co	Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
C. DOCT	JMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap	propriate, o	of the relevant passages	Relevant to claim No.		
X  Y	TSURUOKA et al. Synthesis and Conformational Properties of Oligonucleotides Incorporating 2'-O-Phosphorylated Ribonucleotides as Structural Motifs of Pre-tRNA Splicing Intermediates. Journal of Organic Chemistry. 2000, Vol. 65, No. 22, pages			1, 8-10, 12-14, 16, 17, 19-24, 31-33, 35-37, 39 and 40		
	7479-7494, see entire document.			2, 3, 15, 25, 26, 34 and 38		
<u>x</u>	in a template. Nucleic Acids Research. 1995, Vol. 23, No. 15, page 2811-2814, see entire			1, 8-10, 12-14, 16-24, 31-33, 35-37, 39-41		
Y	document.		·	2, 3, 15, 25, 26, 34 and 38		
•				·		
Fourther	documents are listed in the continuation of Box C.		See patent family annex.			
	pecial categories of cited documents:	T"	later document published after the inte	ernational filing date or priority		
* Special categories of cited documents:  date and not in conflict with the application but cited to understand the principle or theory underlying the invention						
of particu	alar relevance plication or patent published on or after the international filing date	"X"	document of particular relevance; the considered novel or cannot be considered.	claimed invention cannot be red to involve an inventive step		
1	which may throw doubts on priority claim(s) or which is cited to		when the document is taken alone			
establish the publication date of another citation or other special reason (as considered to involve an inventive st combined with one or more other su			p when the document is h documents, such combination			
	t referring to an oral disclosure, use, exhibition or other means			· ·		
priority d	priority date claimed					
Date of the actual completion of the international search  21 July 2004 (21.07.2004)  Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US  Date of mailing of the international search report P 2004  Afthorized officer Course						
21 July 2004 (21.07.2004)  Name and mailing address of the ISA/US  Afthorized officer  Actionized officer						
Commissioner for Patents						
P.O. Box 1450 Alexandria, Virginia 22313-1450  Telephone No. 571-272-1600						

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PCT/US03/1084

Continuation of	of B.	<b>FIELDS</b>	SEARCHEL	) Item 3:
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STN

search terms: 2'-phosphorothioate, 2'-thiophosphate, phosphorylated ribonucleosides

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